B. H. ERWIN.

DRAWBOLT.

APPLICATION FILED JAN. 21, 1921.

1,390,105.

Patented Sept. 6, 1921.

2 SHEETS—SHEET 1.

Fig. 2.

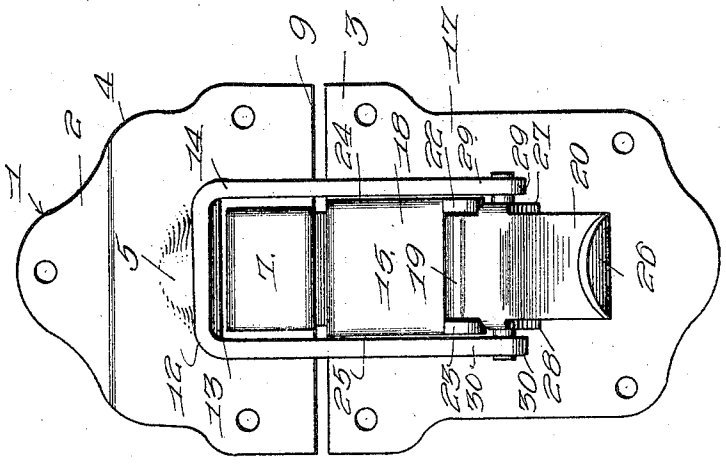
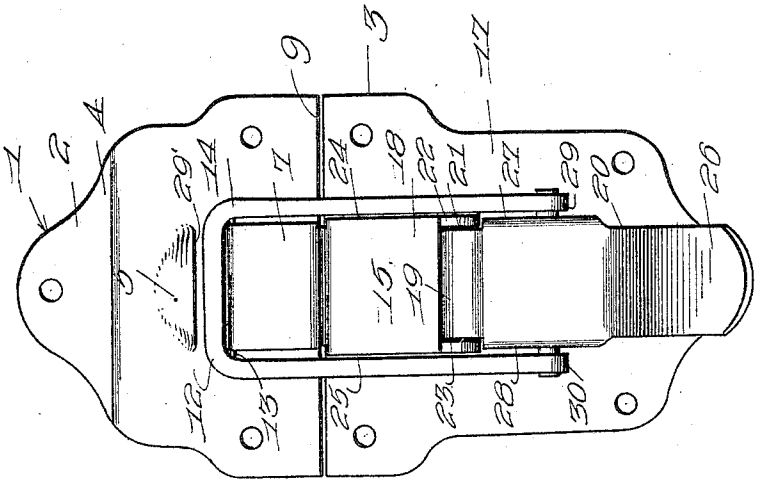


Fig. 1.



Inventor,
Benjamin H. Erwin
By Philip A. T. Terrell
Attorney.

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2 SHEETS—SHEET 2.

Fig. 3.

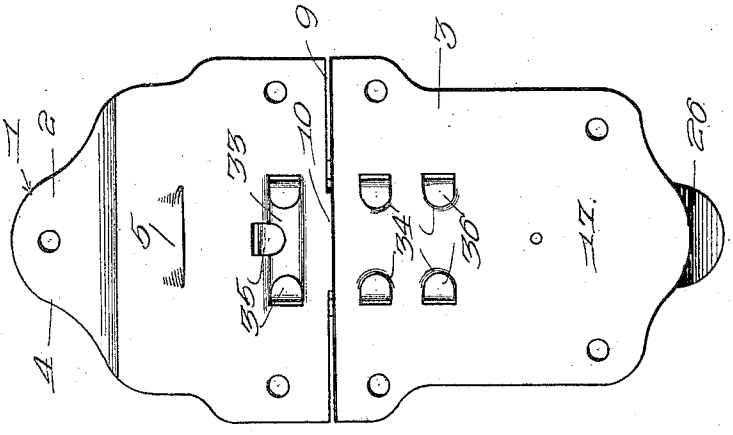


Fig. 4.

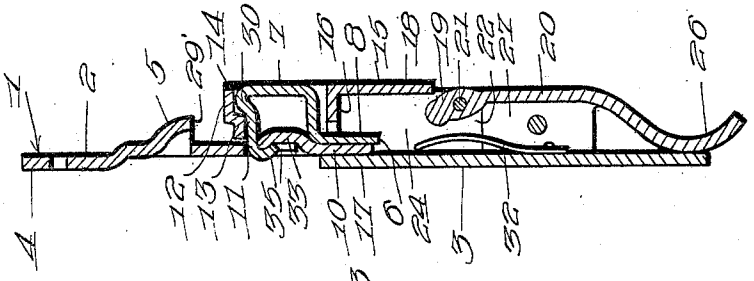
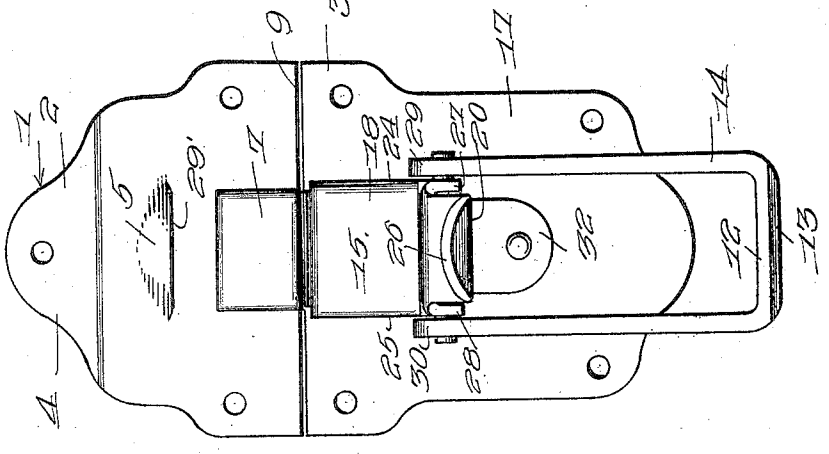


Fig. 5.



Inventor,
Benjamin H. Erwin
By Philip A. H. Terrell
Attorney.

UNITED STATES PATENT OFFICE.

BENJAMIN H. ERWIN, OF MISHAWAKA, INDIANA.

DRAWBOLT.

1,390,105. Specification of Letters Patent. Patented Sept. 6, 1921.

Application filed January 21, 1921. Serial No. 438,901.

To all whom it may concern:

Be it known that I, BENJAMIN H. ERWIN, a citizen of the United States, residing at Mishawaka, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Drawbolts, of which the following is a specification.

This invention relates to improvements in draw bolts and has for its object to provide a catch for trunks or other receptacles having means whereby the top and body portion of the receptacle may be forced into closed position.

Another object of the invention is to provide a draw bolt so constructed that upon the release of the bolt, the top of the receptacle is forced up slightly.

A still further object of the invention is to provide a latch having a bolt engaging strap and a cam member for actuating the same.

With the above and such other objects in view as may hereinafter appear, I have invented the device illustrated in the accompanying drawings, in which—

Figure 1 is an elevational view of my device shown closed,

Fig. 2 is a similar view shown partly opened,

Fig. 3 is a similar view shown entirely open,

Fig. 4 is a longitudinal sectional view of Fig. 1, and

Fig. 5 is an elevational view of the device taken from the back.

Like reference characters indicate like parts throughout the following specification and in the several views in the drawings, in which 1 is a draw bolt consisting of a bolt member 2 and a socket member 3. The member 2 consists of a base 4 having offset or struck out portion 5 and a bolt 6 with an enlarged head 7 riveted or otherwise secured to the lower edge of the member 4, the tongue 8 of said bolt projecting below the edge 9 of the member 4 and being reinforced by a projection 10 on said edge 9.

The upper end of the bolt 6 is provided with a depression 11 sufficiently spaced apart from the struck out member 5 in order that the head 12 having a depending flange 13 of the strap 14 may seat between said members 5 and 7.

The socket member 3 consists of a base with an inverted channel member 15 mounted thereon, the space between the return flange 16 of said member 15 and the base 17, forming a socket into which the tongue 8 is adapted to project. The outer wall 18 of the member 15 is cut away at its lower end to form a recess to receive the pivot end 19 of the cam actuating lever member 20 mounted upon the pin 21 which is held by the projecting ends 22 and 23 of the side walls 24 and 25 of said member 15. The lower end 26 of the member 20 is curved in and then out to form a finger grip by which the lever 20 may be actuated. To the side walls 27 and 28 of the member 20 are pivotally connected the lower ends 29 and 30 of the strap 14, at such a point on said side walls that when the member 26 is raised the flange 13 of said strap 14 will abut against the projecting edge 29 of the struck out member 5, whereby the member 2 will be forced partially out of engagement with the member 3 and whereby when the member 26 is raised to a horizontal position, the head 12 of the strap 14 will seat over the head 7 when the members 2 and 3 are spaced apart so that upon the lowering of the member 26 to its lowermost or vertical position the cam action of the member 20 will forcibly draw the members 2 and 3 into locking engagement with one another and said strap will be held in its locking position by means of the flange 30 on the outer upper edge of the bolt head 7, said latter flange acting against the flange 13 of the strap 14.

The return portion 3 forming a pivot end 19 of the member 20 acts upon a leaf spring 32 mounted thereunder and projecting normally away from the surface of the base 17 and against said member 32, whereby the member 20 acts as a snap and will be held by the action of said spring in either its raised or lowered positions.

Attention is called to the fact that the members 4, 7, 14, 17 and 20 are all stamped from sheet metal, the members 4 and 17 having recesses 33 and 34 stamped in the rear surfaces thereof, lugs 35 and 36 of the members 7 and 20, which are returned in said recesses and whereby the members 7 and 20 are held in the bases 4 and 17 respectively.

Having now described my invention, that which I claim to be new and desire to procure by Letters Patent is:—

1. A draw bolt consisting of a bolt member and a socket member and means whereby said members may be forcibly drawn together, and means whereby said members

may be forced apart, said first member including a pivoted strap, a cam member whereby said strap is actuated, said cam member being spring controlled, said second means consisting of a projection against which said first means may be actuated.

2. A draw bolt consisting of a bolt member and a socket member and means whereby said members may be forcibly drawn together, and means whereby said members may be forced apart, said first member including a pivoted strap, a cam member whereby said strap is actuated, said cam member being spring controlled, said second means consisting of a projection against which said first means may be actuated, said strap having a flange for engagement with said second means.

3. A draw bolt consisting of a bolt member and a socket member and means whereby said members may be forcibly drawn together, and means whereby said members may be forced apart, said first member including a pivoted strap, a cam member whereby said strap is actuated, said cam member being spring controlled, said second means consisting of a projection against which said first means may be actuated, said strap having a flange for arrangement with said second means, a bolt head on said first member having a flange.

4. A draw bolt consisting of a bolt member and a socket member and means whereby said members may be forcibly drawn together, and means whereby said members may be forced apart, said first member including a pivoted strap, a cam member whereby said strap is actuated, said cam member being spring controlled, said second means consisting of a projection against which said first means may be actuated, said strap having a flange for arrangement with said second means, a bolt head on said first member having a flange, whereby said members may be held locked together.

In testimony whereof I affix my signature in the presence of two witnesses.

BENJAMIN H. ERWIN.

Witnesses:
JAMES HENNESSY,
JAMES NUNN.